## WHAT IS CLAIMED IS:

- 1. A plasma display panel, wherein a phosphor constituting
- $2\,$  a fluorescent layer of said plasma display panel is made of
- 3 mono-crystal particles, said mono-crystal particles each having
- 4 a diameter of 10-200 nanometers.
- 1 2. The plasma display panel according to claim 1, wherein
- 2 a reflection layer for reflecting a light emitted from said
- 3 phosphor is provided below said fluorescent layer.
- The plasma display panel according to claim 2, wherein
- $2\,$  said reflection layer is made of white pigment powder.
- 1 4. The plasma display panel according to claim 2, wherein
- 2 between said fluorescent layer and said reflection layer is
- $3\,\,\,\,\,\,\,$  provided a color filter layer for selectively transmitting only
- $4\,$  a predetermined-wavelength visible light.
- 1 5. The plasma display panel according to claim 4, wherein
- 2 said color filter layer is made of an inorganic pigment.
- 1 6. The plasma display panel according to claim 1, wherein
- 2 said fluorescent layer has a film thickness of 0.05-1.0
- 3 mirometers.
- 7. The plasma display panel according to claim 2, wherein
- 2 said reflection layer has a film thickness of 1-20  $\mu$ m.

- 1 8. The plasma display panel according to claims 4, wherein
- 2 said inorganic pigment used to form said color filter layer has
- 3 an average particle diameter of 10-200 nanometers.
- 9. The plasma display panel according to claim 4, wherein
- 2 said color filter layer has a film thickness of 10-200 nanometers.
- 1 10. A plasma display panel in which a rear-side glass
- 2 substrate provided with a data electrode covered by a white
- 3 dielectric and a front-side glass substrate provided with a
- 4 transparent electrode and a trace electrode covered by a
- 5 protection layer and a transparent dielectric are both sealed by
- 6 a sealing material, in which a discharge cell separated by a
- 7 partition is formed, in which on said white dielectric and said
- 8 partition is formed a fluorescent layer made of a fluorescent
- 9 material, wherein a fluorescent layer is formed in such a manner
- 10 as to cover said protection layer of said front-side glass
- 11 substrate, said fluorescent material of said fluorescent layer
- 12 being made of mono-crystal particles having a particle diameter
- of 10-200 nanometers.
- 1 11. The plasma display panel according to claim 10, wherein
- 2 said fluorescent layer has a film thickness of 0.05-0.5
- 3 nanometers.